



DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
NAVAL AIR SYSTEMS COMMAND HEADQUARTERS
WASHINGTON, DC 20361-0001

IN REPLY REFER TO

NAVAIRINST 5400.147
AIR-1002
28 Jun 90

NAVAIR INSTRUCTION 5400.147

From: Commander, Naval Air Systems Command

Subj: DESIGNATION OF THE AIRCREW SYSTEMS PROGRAM OFFICE (PMA202)

Ref: (a) DoD Directive 5000.1 of 1 Sep 87 (NOTAL)
(b) SECNAVINST 5000.1C (NOTAL)
(c) NAVAIRINST 5400.1B (NOTAL)
(d) NAVAIRINST 5400.108 (NOTAL)
(e) NAVAIRINST 5400.14C (NOTAL)
(f) NAVAIRINST 1611.1G (NOTAL)

Encl: (1) Charter for the Aircrew Systems Program Manager (PMA202)

1. Purpose. This instruction continues the Aircrew Systems Program (PMA202) as a designated program under direction of the Commander, Naval Air Systems Command (COMNAVAIR); and issues a charter (enclosure (1)) which provides the program's scope, operating relationships, organization, resources, and outlines the authority and responsibilities of the program manager (PM).

2. Cancellation. This instruction cancels NAVAIR Notice 5400 of 6 March 1989.

3. Background

a. COMNAVAIR directed the establishment of the Navy Aircraft Common Ejection Seat (NACES) and On Board Oxygen Generating System (OBOGS) programs under the organizational code of Air Program Coordinator (APC211), effective 22 April 1986. This program was established under management of the Assistant Commander for Systems and Engineering (AIR-05), Crew Systems Division (AIR-531). By NAVAIR Notice 5400 of 9 May 1988, the Organizational code for this program was changed from APC211 to Program Management Air (PMA211).

b. The following changes were effective 15 January 1989 and issued by NAVAIR Notice 5400 of 6 March 1989 (cancelled by this instruction):

(1) Organizational code changed from PMA211 to PMA202 to eliminate confusion within the Naval Air Systems Command Headquarters (NAVAIRHQ).

(2) Management responsibilities for all aircrew life support systems (ALSS) were combined with the NACES and OBOGS responsibilities, within PMA202.

(3) Title for PMA202 changed from NACES and OBOGS Program to Aircrew Systems Program.



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(4) PMA202 was transferred from AIR-531 to the Program Director Air (PDA) for Tactical Aircraft (TACAIR) Programs (PDA10).

(5) CAPT Glen C. Speakman, USN, relinquished management responsibilities for AIR-531, and continued as PM for PMA202. CAPT Speakman assumed these dual responsibilities, 10 June 1988.

c. As a result of the reorganization of the Department of the Navy (DON), by the Secretary of the Navy (SECNAV), the TACAIR PDA billet was changed to Program Executive Officer (PEO) for TACAIR, and transferred from NAVAIRHQ to the Assistant Secretary of the Navy (Research, Development and Acquisition). COMNAVAIR, under SECNAV's DON reorganization, assigned management responsibility for PMA202 to the PDA for Air Warfare (PDA10), effective 16 April 1990.

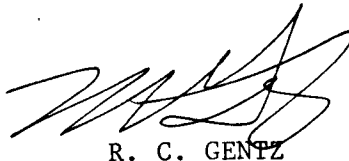
d. Management responsibilities for all ALSS's combined with the NACES and OBOGS Programs provides increased command emphasis and visibility for aircrew systems management and enhances efficiency within NAVAIRHQ.

4. Action

a. CAPT Speakman continues as PM for PMA202 to organize and execute management responsibilities following the authority and direction provided by references (a) through (f), enclosure (1), and other applicable directives issued by higher authority. The PM reports to COMNAVAIR, the PEO, via PDA10. PDA10 provides program management direction within broad guidelines established by COMNAVAIR; ensures commonality; interoperability; multi-platform integration for warfare/mission areas; and monitors the program throughout its life cycle. The PDA and PM will keep the Deputy Commander for Acquisition and Operations (AIR-01) informed on program status.

b. Functional organizations of NAVAIRHQ will support the PM as specified in references (c) through (e), enclosure (1), and other applicable directives issued by higher authority.

5. Approval. The charter for PMA202 (enclosure (1)) is hereby approved.



R. C. GENTZ

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CHARTER
FOR THE
AIRCREW SYSTEMS PROGRAM MANAGER (PMA202)

Ref: (a) DoD Directive 5000.1 of 1 Sep 87 (NOTAL)
(b) SECNAVINST 5000.1C (NOTAL)
(c) NAVAIRINST 5400.1B (NOTAL)
(d) NAVAIRINST 5400.108 (NOTAL)
(e) NAVAIRINST 5400.14C (NOTAL)
(f) NAVAIRINST 1611.1G (NOTAL)

1. Introduction

a. Purpose. This charter establishes the authority and responsibilities of the program manager (PM) for the Aircrew Systems Program (PMA202), outlines the program's scope, operating relationships, organization, and resources.

b. References. This program will be conducted following management principles identified in references (a) through (f), and other applicable directives issued by higher authority.

2. System Description

a. Components of the Aircrew Systems Program are specialized clothing and equipment designed to permit crewmembers and passengers to function within their flight environment; safely escape from disabled aircraft; survive after escaping the aircraft; and to interface with the rescue effort.

b. Aviation life support systems under management of PMA202 include the following:

- (1) Ejection seats.
- (2) Crashworthy seats.
- (3) Fixed seats.
- (4) Capsular cockpit.
- (5) Emergency escape parachutes.
- (6) Non-aircraft integrated flotation systems.
- (7) Oxygen systems.
- (8) Anti-G suits.
- (9) Survival kits.

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6. Relationship to Chartering Authority. The PM receives authority from and is responsible and accountable to the Commander, Naval Air Systems Command (COMNAVAIR) for discharge of the latter's responsibility as Program Executive Officer, following references (a) and (b). The PM reports to COMNAVAIR via the Program Director Air for Air Warfare (PDA10). PDA10 ensures commonality, interoperability, and multi-platform integration for the warfare/mission area, monitors and evaluates the mission performance of the program throughout its life cycle, makes recommendations as appropriate, and advises COMNAVAIR of program status and progress. Matters requiring COMNAVAIR's attention will be conducted with PDA10 who will, if possible, accompany the PM to see COMNAVAIR. When PDA10 is unavailable and urgency dictates immediate communication with COMNAVAIR, the PM will brief PDA10 as soon as possible. The PM and PDA10 will keep the Deputy Commander for Acquisition and Operations (AIR-01) informed on program status.

7. Specific Interface and Operating Relationships. The PM will accomplish the following:

a. Coordinate appropriate interface segments of the program with other program directors, PM's, and systems commands (SYSCOM's). Coordinate requirements, technical design, and budgetary issues with the Office of the Chief of Naval Operations (OPNAV) staff elements, user requirements, training, and deployed system performance with the designated unified and specified commanders and their component commanders, as appropriate.

b. Respond to DSAP requirements. The PM will provide overall initiation, guidance, and coordination of Navy and Marine Corps efforts in logistically supporting and sustaining incountry inventory of ALSS, when applicable. The PM will ensure all DSAP efforts are performed by established procedures. The PM will maintain close liaison with the NAVAIRHQ Defense Security Assistance Division (AIR-103), and the Office of Technology Transfer and Security Assistance.

c. Maintain active liaison with cognizant members of the Naval Air Systems Command (NAVAIR) staff and program coordinators in OPNAV, per the Navy Programming Manual. The PM will keep these individuals informed of status and progress of the program through formal and informal communication.

d. Provide advice, guidance, and assistance, when required, to participating organizations on support and test equipment to ensure planning, procurement, and timely deliveries of such equipment in support of ALSS.

e. Keep the Office of Vice Commander (AIR-09), Military Affairs Officer (AIR-09X) informed of military personnel requirements.

f. Report, in writing, to COMNAVAIR and other appropriate management officials any pattern of failures affecting ALSS or their capabilities, components, or related equipment, in order that decisions regarding continued effort to fulfill requirements may be made by appropriate officials to ensure maximum economy and effectiveness.

c. Programs under responsibility of the PM are acquisition category III and IV.

d. The PM's billet (military officer (06)) is equivalent to a major command.

4. Authority and Responsibilities

a. Effective 10 June 1988, CAPT Glen C. Speakman, USN, was designated PM of PMA211. Effective 15 January 1989, PMA211 was changed to PMA202. The PM is the single central executive responsible for managing the program and accomplishing objectives stated in this charter. The PM has broad directive authority within the scope of the program to plan, direct, control, and use resources not only for approved programs, but also for related in-house and contractor efforts. This includes assigning responsibility, as appropriate, to the various Naval Air Systems Command Headquarters (NAVAIRHQ) functional elements within the overall framework outlined in references (b) through (e). As the responsible executive, the PM will act on initiatives which affect the program. When actions are required beyond the authority granted in this charter, the PM will refer the action to higher authority with recommendations, including alternatives available.

b. When conflicts exist between program and functional policies, actions directed by the PM will be continued until final resolution.

c. Following reference (f), the PM is authorized to prepare and sign fitness reports for all military personnel (junior to the PM), and execute performance evaluations for civilian personnel assigned full time to the program office. The PM may submit concurrent fitness reports on other officers junior to the PM, and working for PMA202 in the functional support groups.

d. When an official above the PM exercises decision authority on program matters, the decision will be documented with a copy to the decision authority, as official program direction to the PM. The official will be held responsible for the decision, following reference (b).

e. The PM's primary mission is to provide the Navy and Marine Corps fully developed, supportable, and reliable aircrew life support systems (ALSS) which will satisfy approved operational requirements while addressing human factors criteria. When applicable, the PM will also coordinate and manage all ALSS programs involving other U.S. Services, North Atlantic Treaty Organization, and Defense Security Assistance Programs (DSAP).

5. Limitations of Authority

a. The PM does not have authority to deviate from policy established by higher authority.

b. Communication, action, or inaction in any form which contractors may interpret as direction will be conducted only through an appropriately assigned contracting officer.

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g. Maintain a continuing review of operational requirements and needs, inventory objectives, and the status of ALSS technology. Ensure timeliness, accuracy, consistency, and compatibility with program plans and funding availability. Based on assessments of cost, schedule, and risk, provide higher authority options for ALSS improvements. Also, when requirements and objectives are incompatible and cannot be achieved, report problems and recommendations for corrective action to COMNAVAIR via PDA10.

h. Assess periodically the readiness condition of ALSS. When material readiness is unsatisfactory, the PM will initiate corrective actions within the scope of the resources available to the program and coordinate other actions, as necessary, to correct unsatisfactory readiness.

i. Maintain a continuing review of logistic support provided by participating organizations to ensure that such support is compatible with approved program and operating objectives. The PM will also ensure preparation of an integrated logistic support plan.

j. Establish appropriate requirements for, and monitor the acquisition of, special or additional facilities necessary for support of test, evaluation, installation, operation, and maintenance for ALSS. The PM will ensure that facilities planning factor criteria are developed with Naval Facilities Engineering Command Headquarters (NAVFAC (Code 2013)) representatives and published in NAVFAC P-80. The PM will also ensure that requirements for new facilities and modifications to existing facilities are made known to participating organizations in order for planning, programming, and construction schedules to be responsive in support of ALSS.

k. Ensure test and evaluation master plans are prepared as detailed in reference (b). The PM will maintain liaison with cognizant personnel at the NAVAIR test and evaluation activities during developmental test and evaluation, and inform COMNAVAIR concerning the readiness of the system for operational evaluation and fleet use. The PM will maintain active liaison with cognizant personnel in OPNAV; Operational Test and Evaluation Force; and the Office of the Secretary of Defense; via chain of command, on the operational test and evaluation of PMA202 components. When concurrent evaluations (technical and operational) are conducted, the PM will ensure that NAVAIR's responsibilities for the technical phases are coordinated and accomplished. Contractor test and demonstrations will be performed, following original and follow-on contracts.

l. Draw on resources of functional organizations within NAVAIRHQ to meet required milestones. When the PM cannot resolve conflicts between program policies and objectives, the problem will be referred to PDA10. Pending resolution, the PM will continue to execute the program.

m. Direct development and procurement of test and ground support equipment, technical documentation, trainers, training equipment and devices, as required, through contractors and appropriate Navy logistics support activities. The Assistant Commander for Fleet Support and Field Activity

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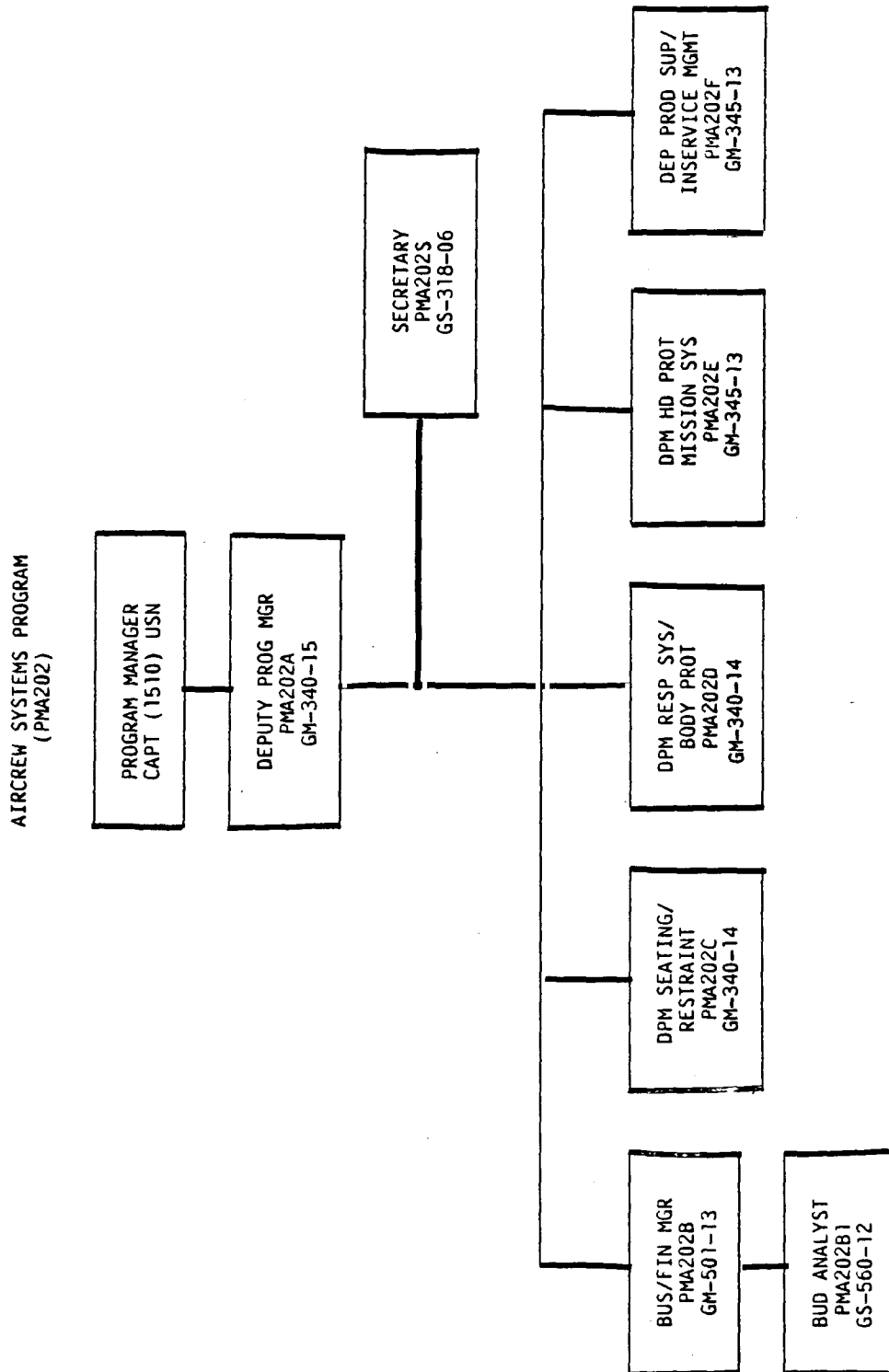
- (10) Aircrew flashlights.
- (11) Kneeboards.
- (12) Laser/chemical/biological/radiological protective systems.
- (13) Anti-exposure systems.
- (14) Helmets.
- (15) Survival radios.
- (16) Litters.
- (17) Survival vests.
- (18) Aircrew restraint systems.
- (19) Oxygen and smoke masks.
- (20) Body armor.
- (21) Aircrew protective equipment.
- (22) Aircrew safety boots.
- (23) Advanced crewstation design.
- (24) Aircrew emergency underwater breathing devices.
- (25) Survival devices.
- (26) Aircrew cooling systems.

3. Scope

a. The scope of the Aircrew Systems Program consists of the definition, development, test and evaluation, acquisition, initial support, and readiness improvement of the systems. This includes subsystems and components, spares, repair parts, peculiar and common support equipment, system trainers/flight simulators, naval air maintenance trainers, and all supporting technical documentation.

b. Funds listed in the Five Year Defense Plan and assigned to the PM for obligation in the execution of program objectives include the following program elements:

- (1) Research, Development, Test and Evaluation, Navy: 0604264NBA-4.
- (2) Operation and Maintenance, Navy: 78017NBA-7.
- (3) Other Procurement, Navy: 78017NBA-3/BA-8.



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Attachment A
Encl (1)

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d. Administrative Support. PMA202 will be administratively supported by NAVAIRHQ. This support will include military personnel services, space allocations, security, graphic arts, communications, and other services. This support will include coordination of civilian personnel services administered by the Consolidated Civilian Personnel Office, Crystal City, Washington, DC.

e. SYSCOM's. SYSCOM's will provide support to the PM, as applicable.

10. Congressional and Public Information. COMNAVAIR is responsible for coordinating and disseminating public information on the program within the Department of the Navy, to legislative bodies, industry, and the general public. This responsibility has been delegated to the NAVAIRHQ Congressional and Public Affairs Office (AIR-07D).

11. Resources Assessment

a. The PM will evaluate and document the effect of proposals to increase or decrease the resources authorized to execute the program and will determine the effect of proposed changes on approved cost, schedules, procurement plans, and performance objectives. The PM's evaluation will be considered by the officials having final decision authority during programming, reprogramming and budgeting deliberations.

b. The OPNAV sponsor will be informed, via chain of command, in any instance where requirements of the program cannot be completed within the resources and time available.

12. Program Transition and Disestablishment. This program will be reviewed periodically to determine if objectives have been accomplished. If the review indicates the objectives have been or are near completion, the PM will develop a transition plan to ensure a smooth disposition of remaining resources, responsibilities, and functions.

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OTHER KEY MANPOWER RESOURCES

ASSISTANT PROGRAM MANAGERS AND PROGRAM SUPPORT OFFICES

<u>TITLE</u>	<u>CODE</u>
Aircraft Division (Research and Technology)	AIR-931H
Aviation Training Systems (Training/Equipment)	PMA-20533D
Anti-Submarine Warfare Support Aircraft and Aircraft Components Division (Contracts)	AIR-21533
Logistics Management Division	AIR-41042
Production Management Division	AIR-51432
Crew Systems Division (Systems and Engineering)	AIR-5311/AIR-5312
Weapons Engineering Division	AIR-54043E
Avionics and Computer Resources Division (Radios)	AIR-54643
Support Equipment Division	AIR-55233E

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Attachment B
Encl (1)

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Management (AIR-04) will develop total command logistics budgetary and quantitative requirements and direct procurement of systems for PMA202, and repair parts. Requirements of the PM will be given maximum support in development of total command requirements. Concurrence of the PM on program requirements will be obtained prior to budgetary submissions. NAVAIR, through its commodity managers, and Naval Supply Systems Command, through its inventory control points, will provide Navy follow-on and replenishment support for the items indicated in this subparagraph.

n. Review support provided by participating organizations to ensure that it satisfies approved program and operating objectives. When the PM cannot resolve deficiencies, the problems and recommendations will be submitted to PDA10.

o. Ensure adequacy of program documentation (Navy decision coordinating papers, test and evaluation master plans, program management proposals, and acquisitions plans). Establish interface design specifications for ALSS integration.

p. Maintain active liaison, via chain of command, with appropriate program coordinators in OPNAV; Secretary of the Navy; Joint Chiefs of Staff; Office of the Secretary of Defense; Commander, Operational Test and Evaluation Forces; and other agencies on matters concerning approval for service use.

8. Program staffing and organization. The Program Office will be organized by, and function under direction of the PM. The Program Office organization and staffing requirements are shown in attachment A of this enclosure.

9. Participating Organizations

a. Headquarters. All elements of NAVAIRHQ will provide support to the PM, following references (b) through (e). The PM is authorized direct liaison with all NAVAIRHQ divisions and directorates in the exercise of responsibilities. Other key manpower resources are listed in attachment B of this enclosure.

b. Field Activities. Activities participating in the execution of the program are listed in attachment C of this enclosure, and additional activities will be added as approved by higher authority. Direct liaison with all activities concerned with the program is authorized. Under the PM's guidance, formal work assignments to NAVAIR field activities will be coordinated by the appropriate functional organization(s) in NAVAIRHQ.

c. Non-NAVAIR Organizations. Assignments to activities not under NAVAIRHQ control will be coordinated with cognizant headquarters organizations, following references (d) and (e). When necessary, the PM will establish Memoranda of Agreement (MOA) and Memoranda of Understanding (MOU) between COMNAVAIR and organizations not under NAVAIR control. All MOA's/MOU's will be coordinated with applicable NAVAIRHQ codes.

ACTIVITIES PARTICIPATING
IN THE PROGRAM

<u>Activity</u>	<u>Location</u>	<u>Function</u>
Naval Air Development Center	Warminster, PA	Lead laboratory and cognizant field activity for Aircrew Life Support Systems (ALSS).
Naval Weapons Center	China Lake, CA	Lead laboratory and cognizant field activity for parachutes.
Naval Air Test Center	Patuxent River, MD	Conduct tests, fleet and logistic support functions assigned by lead laboratory.
Navy Safety Center	Norfolk, VA	Maintain liaison with NAVAIR and contractors regarding system safety engineering.
Operational Test and Evaluation Force	Norfolk, VA	Operational test and evaluation of ALSS equipment.
Naval Avionics Center	Indianapolis, IN	Lead laboratory and cognizant field activity for survival radios.
Naval Air Engineering Center	Lakehurst, NJ	Design, development, and acquisition of ALSS support equipment.
Naval Air Technical Services Facility	Philadelphia, PA	ALSS technical data and documentation.
Naval Aviation Supply Office	Philadelphia, PA	ALSS spares.

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